

SEQUENCE LISTING

<110> Loren J. Miraglia  
Pamela Nero  
Mark J. Graham  
Brett P. Monia  
Erich Koller  
MingYi Chiang  
Mano Manoharan

<120> Antisense Modulation of mdm2 expression.

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Pro Lys Pro Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys  
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| 80 85 90   |    |    |      |
| aaa gag cac agg aaa ata tat acc atg atc tac agg aac ttg gta gta<br>Lys Glu His Arg Lys Ile Tyr Thr Met Ile Tyr Arg Asn Leu Val Val |    |    | 638  |
| 95 100 105   |    |    |      |
| gtc aat cag cag gaa tca tcg gac tca ggt aca tct gtc agt gag aac<br>Val Asn Gln Gln Glu Ser Ser Asp Ser Gly Thr Ser Val Ser Glu Asn |    |    | 686  |
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| agg tgt cac ctt gaa ggt ggg agt gat caa aag gac ctt gta caa gag<br>Arg Cys His Leu Glu Gly Ser Asp Gln Lys Asp Leu Val Gln Glu     |    |    | 734  |
| 130 135 140  |    |    |      |
| ctt cag gaa gag aaa cct tca tct tca cat ttg gtt tct aga cca tct<br>Leu Gln Glu Glu Lys Pro Ser Ser His Leu Val Ser Arg Pro Ser     |    |    | 782  |
| 145 150 155  |    |    |      |
| acc tca tct aga agg aga gca att agt gag aca gaa gaa aat tca gat<br>Thr Ser Ser Arg Arg Arg Ala Ile Ser Glu Thr Glu Glu Asn Ser Asp |    |    | 830  |
| 160 165 170  |    |    |      |
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| tcc ctt tcc ttt gat gaa agc ctg gct ctg tgt gta ata agg gag ata<br>Ser Leu Ser Phe Asp Glu Ser Leu Ala Leu Cys Val Ile Arg Glu Ile |    |    | 926  |
| 190 195 200 205  |    |    |      |
| tgt tgt gaa aga agc agt agc agt gaa tct aca ggg acg cca tcg aat<br>Cys Cys Glu Arg Ser Ser Ser Glu Ser Thr Gly Thr Pro Ser Asn     |    |    | 974  |
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| Ser Thr Gln Ala Glu Glu Gly Phe Asp Val Pro Asp Cys Lys Lys Thr      |      |
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| Leu Pro Leu Asn Ala Ile Glu Pro Cys Val Ile Cys Gln Gly Arg Pro      |      |
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 20 25 30

ttg ctt ttg aag ttg tta aag tcc gtt gga gcg caa aac gac act tac 144  
 Leu Leu Leu Lys Leu Lys Ser Val Gly Ala Gln Asn Asp Thr Tyr  
 35 40 45

act atg aaa gag att ata ttt tat att ggc cag tat att atg act aag 192  
 Thr Met Lys Glu Ile Ile Phe Tyr Ile Gly Gln Tyr Ile Met Thr Lys  
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agg tta tat gac gag aag cag cag cac att gtg tat tgt tca aat gat 240  
 Arg Leu Tyr Asp Glu Lys Gln Gln His Ile Val Tyr Cys Ser Asn Asp  
 65 70 75 80

ctc cta gga gat gtg ttt gga gtc ccg agt ttc tct gtg aag gag cac 288  
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 85 90 95

agg aaa ata tat gca atg atc tac aga aat tta gtg gct gta agt cag 336  
 Arg Lys Ile Tyr Ala Met Ile Tyr Arg Asn Leu Val Ala Val Ser Gln  
 100 105 110

caa gac tct ggc aca tcg ctg agt gag agc aga cgt cag cct gaa ggt 384  
 Gln Asp Ser Gly Thr Ser Leu Ser Glu Ser Arg Arg Gln Pro Glu Gly

115

120

125

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| ggg agt gat ctg aag gat cct ttg caa gcg cca cca gaa gag aaa cct |     |     | 432  |
| Gly Ser Asp Leu Lys Asp Pro Leu Gln Ala Pro Pro Glu Glu Lys Pro |     |     |      |
| 130   | 135 | 140 |      |
| tca tct tct gat tta att tct aga ctg tct acc tca tct aga agg aga |     |     | 480  |
| Ser Ser Ser Asp Leu Ile Ser Arg Leu Ser Thr Ser Arg Arg Arg     |     |     |      |
| 145   | 150 | 155 | 160  |
| tcc att agt gag aca gaa gag aac aca gat gag cta cct ggg gag cg  |     |     | 528  |
| Ser Ile Ser Glu Thr Glu Glu Asn Thr Asp Glu Leu Pro Gly Glu Arg |     |     |      |
| 165   | 170 | 175 |      |
| cac cg aag cgc cgc agg tcc ctg tcc ttt gat ccg agc ctg ggt ctg  |     |     | 576  |
| His Arg Lys Arg Arg Ser Leu Ser Phe Asp Pro Ser Leu Gly Leu     |     |     |      |
| 180   | 185 | 190 |      |
| tgt gag ctg agg gag atg tgc agc ggc ggc agc agc agc agt agc agc |     |     | 624  |
| Cys Glu Leu Arg Glu Met Cys Ser Gly Gly Ser Ser Ser Ser Ser Ser |     |     |      |
| 195   | 200 | 205 |      |
| agc agc agc gag tcc aca gag acg ccc tcg cat cag gat ctt gac gat |     |     | 672  |
| Ser Ser Ser Glu Ser Thr Glu Thr Pro Ser His Gln Asp Leu Asp Asp |     |     |      |
| 210   | 215 | 220 |      |
| ggc gta agt gag cat tct ggt gat tgc ctg gat cag gat tca gtt tct |     |     | 720  |
| Gly Val Ser Glu His Ser Gly Asp Cys Leu Asp Gln Asp Ser Val Ser |     |     |      |
| 225   | 230 | 235 | 240  |
| gat cag ttt agc gtg gaa ttt gaa gtt gag tct ctg gac tcg gaa gat |     |     | 768  |
| Asp Gln Phe Ser Val Glu Phe Glu Val Glu Ser Leu Asp Ser Glu Asp |     |     |      |
| 245   | 250 | 255 |      |
| tac agc ctg agt gac gaa ggg cac gag ctc tca gat gag gat gat gag |     |     | 816  |
| Tyr Ser Leu Ser Asp Glu Gly His Glu Leu Ser Asp Glu Asp Asp Glu |     |     |      |
| 260   | 265 | 270 |      |
| gtc tat cgg gtc aca gtc tat cag aca gga gaa agc gat aca gac tct |     |     | 864  |
| Val Tyr Arg Val Thr Val Tyr Gln Thr Gly Glu Ser Asp Thr Asp Ser |     |     |      |
| 275   | 280 | 285 |      |
| ttt gaa gga gat cct gag att tcc tta gct gac tat tgg aag tgt acc |     |     | 912  |
| Phe Glu Gly Asp Pro Glu Ile Ser Leu Ala Asp Tyr Trp Lys Cys Thr |     |     |      |
| 290   | 295 | 300 |      |
| tca tgc aat gaa atg aat cct ccc ctt cca tca cac tgc aaa aga tgc |     |     | 960  |
| Ser Cys Asn Glu Met Asn Pro Pro Leu Pro Ser His Cys Lys Arg Cys |     |     |      |
| 305   | 310 | 315 | 320  |
| tgg acc ctt cgt gag aac tgg ctt cca gac gat aag ggg aaa gat aaa |     |     | 1008 |
| Trp Thr Leu Arg Glu Asn Trp Leu Pro Asp Asp Lys Gly Lys Asp Lys |     |     |      |
| 325   | 330 | 335 |      |
| gtg gaa atc tct gaa aaa gcc aaa ctg gaa aac tca gct cag gca gaa |     |     | 1056 |
| Val Glu Ile Ser Glu Lys Ala Lys Leu Glu Asn Ser Ala Gln Ala Glu |     |     |      |
| 340   | 345 | 350 |      |
| gaa ggc ttg gat gtg cct gat ggc aaa aag ctg aca gag aat gat gct |     |     | 1104 |
| Glu Gly Leu Asp Val Pro Asp Gly Lys Lys Leu Thr Glu Asn Asp Ala |     |     |      |
| 355   | 360 | 365 |      |

|   |       |
|---|-------|
| aaa gag cca tgt gct gag gag gac agc gag gag aag gcc gaa cag acg | 1152  |
| Lys Glu Pro Cys Ala Glu Glu Asp Ser Glu Glu Lys Ala Glu Gln Thr |       |
| 370 375 380   |       |
| ccc ctg tcc cag gag agt gac gac tat tcc caa cca tcg act tcc agc | 1200  |
| Pro Leu Ser Gln Glu Ser Asp Asp Tyr Ser Gln Pro Ser Thr Ser Ser |       |
| 385 390 395 400   |       |
| agc att gtt tat agc agc caa gaa agc gtg aaa gag ttg aag gag gaa | 1248  |
| Ser Ile Val Tyr Ser Ser Gln Glu Ser Val Lys Glu Leu Lys Glu Glu |       |
| 405 410 415   |       |
| acg cag gac aaa gac gag agt gtg gaa tct agc ttc tcc ctg aat gcc | 1296  |
| Thr Gln Asp Lys Asp Glu Ser Val Glu Ser Ser Phe Ser Leu Asn Ala |       |
| 420 425 430   |       |
| atc gaa cca tgt gtg atc tgc cag ggg cgg cct aaa aat ggc tgc att | 1344  |
| Ile Glu Pro Cys Val Ile Cys Gln Gly Arg Pro Lys Asn Gly Cys Ile |       |
| 435 440 445   |       |
| gtt cac ggc aag act gga cac ctc atg tca tgt ttc acg tgt gca aag | 1392  |
| Val His Gly Lys Thr Gly His Leu Met Ser Cys Phe Thr Cys Ala Lys |       |
| 450 455 460   |       |
| aag cta aaa aaa aga aac aag ccc tgc cca gtg tgc aga cag cca atc | 1440. |
| Lys Leu Lys Lys Arg Asn Lys Pro Cys Pro Val Cys Arg Gln Pro Ile |       |
| 465 470 475 480   |       |
| caa atg att gtg cta act tac ttc aac tag                         | 1470  |
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